



MULTI STABILIZED OUTDOOR DETECTOR

VX-402REC/402

(voice recording & warning model) (standard model)

Warning,
you have entered
an unauthorized area



- Reliable short-range detection for external areas
- Ideal for Event Driven CCTV applications
- Two detection zones for superior stability
- Any message recordable for each application in any language (VX-402REC)

VX-402 Offers New Solutions for Outdoor Protection



Voice Recording / Warning Functions

(VX-402REC only)

The VX-402REC provides added flexibility to virtually any outdoor application. The advanced voice warning/playback function can be recorded in any language or setting, allowing for suitable messages specific to any installation site.

Easy Voice Recording **● REC**

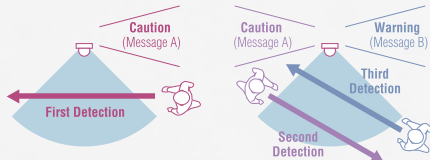
The VX-402REC can record two kinds of voice messages of up to 8 seconds each by using either the built-in microphone or external recording equipment such as a PC.

Voice Warning Function **▶ PLAY**

When someone enters the protected area with the system armed, the Voice Warning function delivers one of two types of messages or delivers unique recorded messages through one of its four Playback settings. The voice warning function can serve as an effective deterrent for a potential intruder, a friendly greeting for customers, a professional announcement for a place of business, and a variety of additional applications.

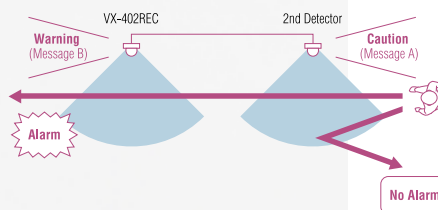
Sequential Message

When the VX-402REC first detects someone in the area, it delivers a caution message. If someone is detected in the same area a second time within 30 seconds of the first message being given, it is repeated. On a third detection within 30 seconds, the caution message automatically changes into a warning message.



Directional Detection

When the VX-402REC is used with another detection device such as an outdoor PIR, active IR beam or a magnetic contact, different messages can be set to better ensure intruder detection. The caution message can be emitted from the first detector with the warning message emitting from the VX-402REC, or vice versa.



Day/Night Message

The VX-402REC changes its voice message automatically from daytime to nighttime mode allowing for welcome messages during the day and a warning notification at night.

Arm/Disarm

For added convenience and more efficient use, the detector provides a caution alert when the "Arm Mode" is set and gives a different message when disarmed. This helps ensure accurate voice notification when protection is needed most.

External Speaker Terminal

The VX-402REC also features a voice output terminal enabling it to be connected to an external speaker when an application requires amplified sound or remote location of the speaker.

A Variety of Applications

- Intruder Prevention: An alarm is activated when an intruder enters the property or prohibited area.
- Warning Alert: A safety warning is activated, for example, when children go near dangerous areas such as a swimming pool.
- Customer greeting: Professional greeting messages are given when customers enter and exit your business.

Improved False Alarm Protection for Stable Reliability

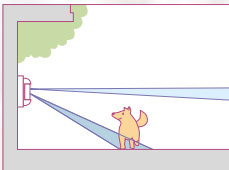
With the use of its unique Multiple Detection Pattern Technology, the VX-402 series utilizes a horizontally double-layered detection pattern, generating messages only when both the upper and lower detection patterns are activated at the same time. This patented technology guarantees reliable performance against false alarms often caused by temperature changes and light reflection in outdoors settings.

Flexible Detection Range Function

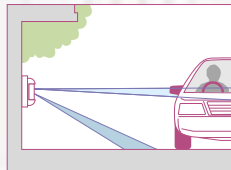
The detection range of the VX-402REC is adjustable, providing additional false alarm protection against any movement, from cars, people or animals outside of the intended protected area.

Size Judging Function

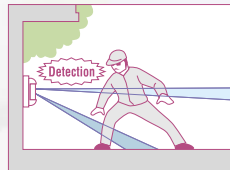
The size judgment function virtually eliminates false alarms due to small animals.



When only the lower zone detects a moving object, the unit is not activated.



When only the upper zone detects a moving object, the unit is not activated.



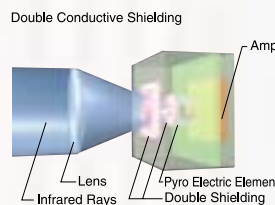
When both the upper & lower zones detect a moving object, the unit is activated.

Advanced Temperature Compensation

At higher ambient temperatures, sensitivity increases excessively at 95-98.6°F or over and human body detection becomes problematic. Compensation allows sensitivity to automatically drop when at 95-98.6°F to perform more reliably within wider temperature ranges. The VX-402 series uses this Temperature Compensation Circuit for both the upper and lower detection functions.

Double Conductive Shielding

The VX series' patented Double Conductive Shielding Technology uses a special conductive filter to cover the element window. This allows infrared energy to pass through, while blocking and grounding out light and RFI sources.



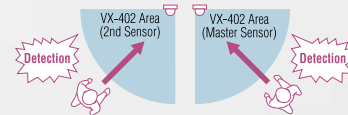
Extensive Detection for Multi-Purpose Applications

Connect with any additional PIR detector, such as an Active IR Beam or Magnetic Contact, for advanced self-contained functions and higher reliability without the use of any special control panel.

■ Detection Area Extension Function

Wiring two VX-402 series sensors together and selecting the "OR" Mode will allow the detection pattern to be doubled.

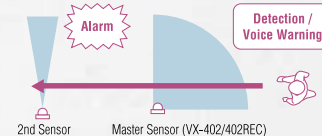
• Application Example 1



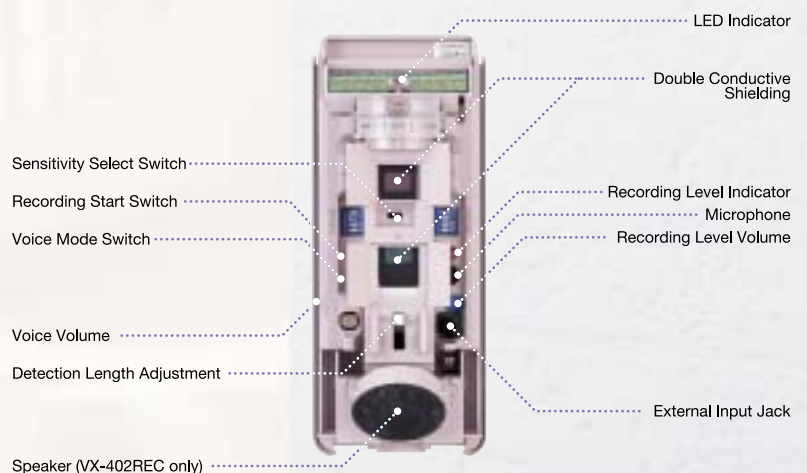
■ Directional Detection Function

The VX-402 series can also be used in conjunction with another sensor for greater stability. By selecting the "AND" Mode and programming which sensor should be activated first (DIP Switch Programming), the VX-402 series can sense direction and will be activated only if motion is detected from a specified direction.

• Application Example 2



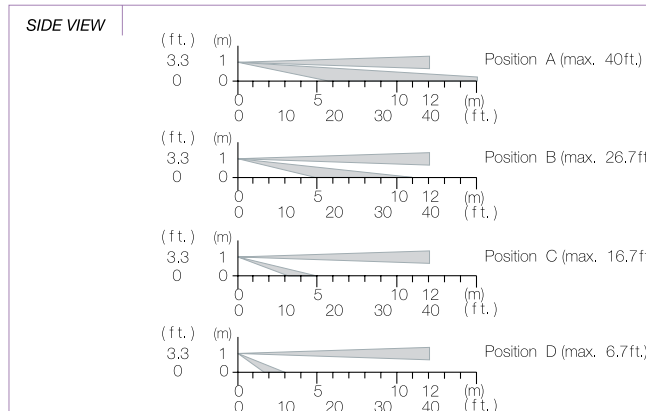
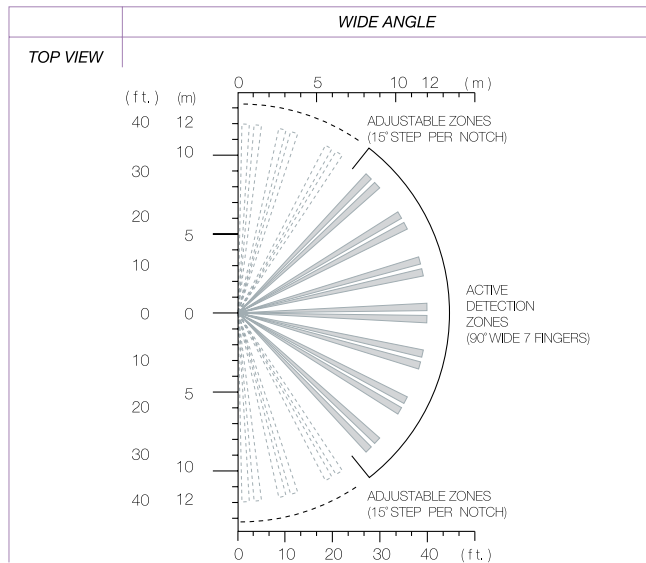
DESCRIPTION AND OPERATION (VX-402REC)



Easy Installation

- The VX-402 series is designed for easy installation. With a built-in conduit entry and simple-to-follow wiring connections, installation is quick and hassle-free.
- The detection area can be customized for every application, using an area masking plate and area angle adjustment control, allowing for precise detection in any application.

DETECTION PATTERNS



The VX-402 series has two detection "fingers", both of which must be activated to generate an alarm. The upper "finger" always stays parallel to the ground, while the angle of the lower "finger" can be adjusted using a four-position switch (as shown above) to vary the length of the detection area.

As a result of this innovative technology, false alarms are greatly reduced, particularly from small animals, which only trigger the lower "finger".

*Specifications and design are subject to change without prior notice.

NOTE: This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. This product conforms to the category "Residential, Commercial and Light Industry" of EMC Directive 89/336 EEC.

SPECIFICATIONS

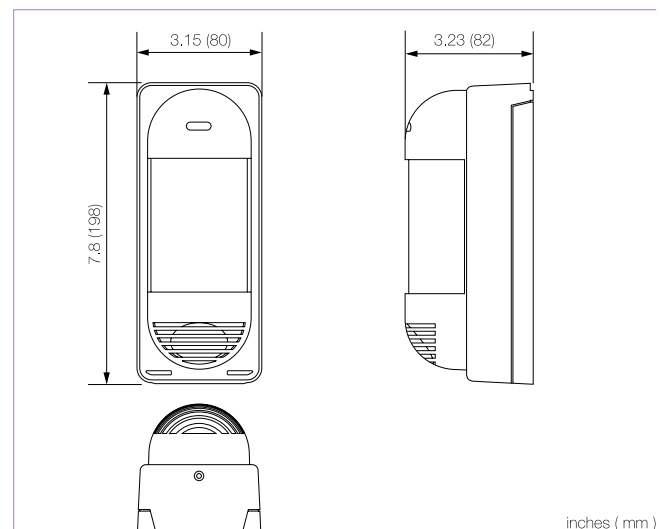
| MODEL | VX-402REC | VX-402 |
|-----------------------|---|--|
| Detection Method | Passive Infrared | |
| Coverage | 40ft. (12m) 90° wide | |
| Detection Zones | 14 zones | |
| Mounting Height | 2.7~4ft. (0.8~1.2m) | |
| Sensitivity | 3.6°F (2.0°C) at 0.6m/s | |
| Detectable Speed | 1~5ft./s (0.3~1.5m/s) | |
| Power Input | 9.5~18V DC | |
| Current Draw | N.C. Normal 25mA max. 180mA N.O. Normal 12mA max. 200mA | Normal 25mA max. 28mA Normal 10mA max. 35mA |
| Alarm Period | 2 ± 1sec. | |
| Alarm Output | Selectable N.C./N.O.; 28V DC 0.2A max. | |
| Tamper Switch | N.C. Opens when cover removed | |
| Pulse Count | 20 ± 5sec. 2 or 4 | |
| Warm-up Period | Approx 30sec. (LED blinks) | |
| Volume of Audible | 75dB | |
| LED Indicator | LED is blinking during warm-up period Alarm condition Recording condition | |
| Weatherproof | IP54 | |
| Operating Temperature | -4~+122°F (-20~+50°C) | |
| Environment Humidity | 95% max. | |
| RF Interference | No Alarm 30V/m | |
| Mounting | Wall, Pole, Conduit and Electrical Box | |
| Weight | 19.4oz. (550g) | |
| Standard Accessories | Pole Mount Kit, Screw Kit, Area Masking Plate | |

Recommended external speaker

| | | |
|---------------|-------------|---|
| Impedance | 8 ohms | — |
| Max power | over 30W | — |
| Output S.P.L. | over 80dB/m | — |
| Wiring length | 10m | — |

* Speaker with amplifier can not be used * Only one external speaker can be connected

DIMENSIONS



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